

SECTION 1A

GENERAL ENGINEERING CONDITIONS

I. GENERAL REQUIREMENTS:

1. **LABOR, MATERIAL AND EQUIPMENT:** Except as noted elsewhere in the construction documents, the Contractor shall be responsible for providing all of the labor, material and equipment necessary to accomplish all of the work. This shall include but not be limited to the construction staking, sampling, testing, and quality control.
2. **FIELD VERIFICATION:** Contractor shall inspect site and field verify all dimensions and conditions prior to commencing demolition, construction or ordering materials.
3. **DISCREPENCIES:** In case of discrepancies within the contract documents in regards to work requirements, the greater quality and quantity indicated shall control in resolving discrepancies.
4. **GENERAL RESTORATIONS:** The Contractor shall repair or replace any damages caused incidental to his operation. He shall accomplish the repair or replacement in kind with new to the satisfaction of the owner for no additional cost.
5. **SOD RESTORATIONS:** Except where seeding is indicated elsewhere in the construction documents, the Contractor shall sod all areas which he disturbs incidental to construction. He shall maintain the new sod for a minimum of three weeks after setting. Maintenance shall include providing at least one inch of water twice per week. Any new sod that is not vigorously growing after the maintenance period shall be removed and replaced by the Contractor with new at no additional cost to the government. Each time after which sod is removed, the maintenance requirement shall begin again also at no additional cost to the government.
6. **BASE ENTRY:** All Contractor, subcontractor and supplier traffic shall enter the base only through the commercial vehicle entrance at Capehart Road which is the Sac Gate. The Sac Gate is the most southerly entrance to the main base.
7. **EQUIPMENT INSTALLATION:** In situations where it may be necessary for the Contractor to stop, reduce, regulate or restrict the flow of utilities in order to install new valves, fire hydrants or other equipment, it shall be the responsibility of the Contractor to provide his own temporary stops and/or bypasses. The Contractor shall install all new valves in the fully open position and allow them to remain fully open. He shall not close them unless requested to do so by the Contracting Officer or designated representative except for exercising or testing lasting no more than five minutes. Any valves or other equipment that becomes damaged incidental to the Contractor's actions shall be replaced in kind with new by the Contractor at no additional cost to the government. The Contractor may use the existing valves including newly installed permanent valves on the distribution system in situations where it is convenient for the government to allow the Contractor to do so for the purpose of installing new equipment. Permission to temporarily change utility flow incidental to new installations shall be requested in advance as a submittal through the Contracting Officer or designated representative.
8. **EXERCISE EQUIPMENT:** All newly installed equipment shall be exercised by the Contractor in the presence of the government's design project manager during or just

- prior to the final acceptance inspection. Valve exercising shall be defined as fully closing and then immediately reopening valves.
9. FINAL ACCEPTANCE INSPECTION: Upon completion of all of the work, the Contractor shall coordinate in writing with the Contracting Officer or designated representative for a final acceptance inspection involving the government's design project manager.
 10. DEMOLITION LOCATIONS: All removals shall be precisely located in the field by the Contractor in the presence of the government inspector at least 2 days prior to accomplishing demolitions.
 11. DEMOLITION MARKINGS: Do not mark removals using paint. Mark removals using keel.
 12. REMOVALS: The government shall have the right of first refusal in regards to all items indicated for removal. The government may chose to retain ownership on an exception basis of any removal item up until the time at which the Contractor disturbs the item. Generally, however, the government will surrender ownership of all removal items. Removal items shall become the property of the Contractor and removed from Offutt AFB by him on a daily basis.
 13. WORK WITHIN BUILDINGS:
 - a. Contractor shall provide for each building unit to be fully weather tight at the end of each working day.
 - b. Coordinate indoor mechanical system downtime with using agency and Government Construction Representative during construction. Drain indoor mechanical units where required, disconnect and reconnect all interior mechanical and electrical systems. Recharge or refill mechanical systems where systems were drained for construction work. Restart and test all mechanical systems that were disconnected for construction work.
 - c. All holes, damaged finishes, exposed unfinished surfaces or any damage caused by work under this contract shall be repaired at no additional cost to the Government. The Contractor shall restore all exposed finishes of patched areas. Extend finish restoration into adjoining areas in a manner that will eliminate evidence of patching and refinishing.
 14. USE OF UTILITIES. All reasonable quantities of utilities will be made available to the Contractor without charge. Any temporary connections or lines that may be required will be installed, maintained, and removed by the Contractor at his own expense and in a manner satisfactory to the Government Construction Representative. The Contractor shall be allowed to draw water from exactly one fire hydrant to be designated by the Government Construction Representative. The Contractor shall provide his own reduced pressure backflow prevention and his own shutoff valve. Removal of all Contractor equipment shall be accomplished prior to final acceptance.
 15. GOVERNMENT ACCESS: Government officials will have access to all parts of the project at all times for inspection purposes.

16. PAVING RESTORATIONS, PAVEMENT PATCHES AND REPAIR.

- a. **ADJUST FIXTURES:** The Contractor shall adjust all fixtures FALLING WITHIN HIS WORK AREAS to grade. These shall include, but not be limited to, all manholes, key boxes, inlets, monitoring wells and CP test stations. He shall transition around all storm inlets to facilitate drainage into them.
- b. **PAVEMENT JOINTS:** Where pavements are to be removed and reconstructed incidental to new work, the Contractor shall also reconstruct the joints in kind with new to match existing. New jointing locations shall generally match existing joints. Where it is not feasible to match existing joints in reconstruction or where the existing joint design was not adequate, the Contractor shall provide a new and improved jointing plan as a submittal for approval by the government. The jointing plan submittal shall include an accurate joint layout drawing at 1 inch equal to 50 feet. Throughout the project as a whole, the Contractor can expect to provide 20% more joints than are existing. When patching back new pavement, the Contractor shall dowel transverse joints and shall tie longitudinal joints. All new joints to be sealed. See the drawings for joint details.
- c. **PAVEMENTS EXPANSION JOINTS:** Where expansion joints are removed incidental to new construction the Contractor shall replace them in kind with new.
- d. **REINFORCED PAVEMENTS:** All irregular or non-rectangular sections of NEW CONCRETE pavement such as those around intersections shall be reinforced in both directions with deformed number 4 bars at 9" on center. The reinforcement shall be raised 3" clear from the bottom face.
- e. **PAVEMENT REPLACEMENT EXTENTS:** Where pavement is to be removed and replaced and the construction documents indicate limits that do not fall on a joint, the Contractor shall extend the removal and replacement to include the entire slab to the nearest joint beyond the limit indicated if any.
- f. **SUBGRADE PREPARATION:** Unless greater requirements are indicated elsewhere in the plans, the minimum depth of subgrade preparation for the placement of new roadway or parking lot paving or patching shall be 8 inches.
- g. **CURB:** The Contractor shall replace with new any curb that is to be removed. Tie new curbs to slab. See the drawings for joint and tie details.
- h. **SAW CUT:** Pavements to be removed shall be saw cut to the depth of removal.
- i. **TRAFFIC PAINT RESTORATIONS:** Prior to re-opening new work on roadways or parking lots to traffic, the Contractor shall repaint all traffic markings which he affected incidental to his operations to match existing. These shall include, but not be limited to parking stalls, road centerlines, edge striping, turn arrows and center islands. The Contractor shall verify existing pavement markings prior to demolishing pavement. The Contractor shall provide digital photos (.pdf format) of the existing pavement markings to the government as a submittal prior to demolishing pavement.

II. BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST: The Contractor shall be responsible for securing and completing his own Base Civil Engineering Work Clearance Request, AF form IMT 103. This will include all coordination of actions to obtain an approved request with all required signatures prior to starting construction work. The Contractor shall

accomplish this separately for each excavation. Engineering personnel (government construction representative) will explain and provide the form to the Contractor at the pre-construction meeting.

1. Prior to commencing construction work, whenever the ground surface is to be disturbed, or when erecting structures or operating equipment near overhead lines, the Contractor shall possess, an approved and completed AF Form 103, Base Civil Engineering Work Clearance Request. The completed form shall be provided to any government personnel for inspection upon request at any time during the conduct of the work.
2. All associated requirements pertaining to the completed form apply to any and all excavation or ground penetrating operations, regardless of depth.
3. In addition to the government personnel indicated on the form, the Contractor shall coordinate with the Digger's Hotline and all utility owners in the vicinity of the work not served by the Digger's Hotline sufficiently in advance to allow them to locate and mark their utilities. List the Digger's Hotline ticket number on the form.
4. The Work Clearance Request shall include a written explanation with drawings of the proposed work.
5. After all of the known underground structures and utilities are marked, the Contractor shall precisely locate all utilities both vertically and horizontally using non-destructive methods. In the event structures or utilities are damaged incidental to the Contractor's actions, the Contractor shall immediately notify the Contracting Officer or designated representative and the Contractor shall repair or replace all damages in kind with new to the satisfaction of the government for no additional cost.

III. CONSTRUCTION TRAFFIC CONTROL. The Contractor shall provide construction traffic control to maximize efficiency and convenience to government operations.

1. The Contractor shall be responsible for providing, placing, maintaining, relocating, and removing all required construction traffic control devices.
2. The Contractor shall continuously patrol to monitor and maintain his traffic control while it is in place.
3. The Contractor shall close no more than one lane at a time at any single location.
4. In situations where the Contractor restricts two-way traffic flow to one lane, the Contractor shall post flagmen at each end of the closure continuously for the duration of the closure. The flagmen shall regulate flow through the closure.
5. The Contractor shall provide separate MUTCD compliant traffic control submittals through the Contracting Officer or designated representative for each instance and location where work will impact parking or traffic flow on roadways and/or parking lots. This submittal will be accomplished at least twenty-one (21) days prior to the proposed implementation. The submittal shall include a scaled layout drawing, description of the work to be accomplished, all of the significant locations to include distances from known points and building numbers, and the proposed time, date, and duration to implement the traffic control.
6. The Contractor shall secure all areas of work with barricades when leaving the area. Holes shall NOT be left open in the pavement overnight.
7. The Contractor may work concurrently on no more than two work areas at a time where both work areas require traffic lane closures. The two closures shall be as remotely located from each other as possible such that traffic complications from one do not affect the other.

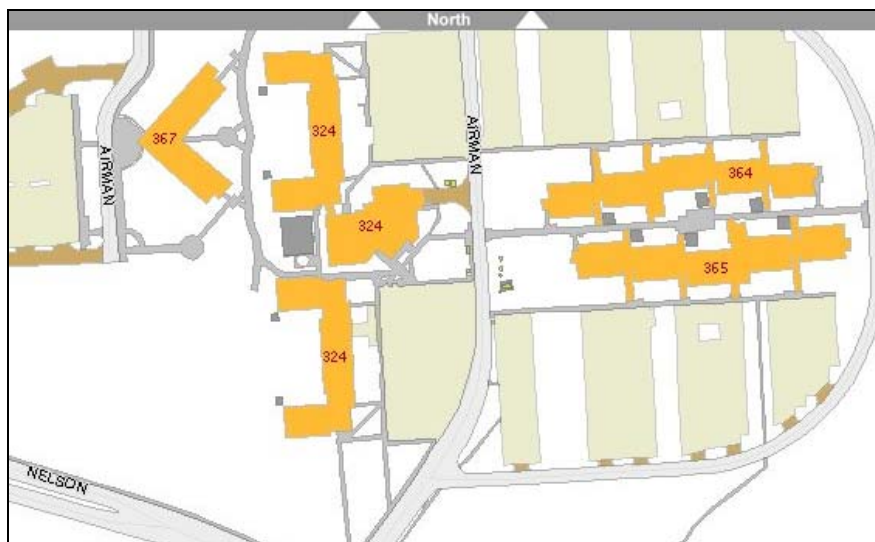
IV. COORDINATION:

1. **WEEKLY MEETINGS.** The Contractor shall hold weekly coordination meetings. He shall prepare an agenda for each meeting. The agenda shall include but not be limited to the Contractor's description of the previous week's accomplishments, the coming week's anticipated construction challenges and a schedule updated weekly that projects major construction operations through time to the end of construction. He shall begin the meeting at the same place on the project site each week. He shall hold the meeting at the same time each week such as at 9:00 a.m. on Tuesdays. He shall coordinate the time and location during the preconstruction meeting with the Contracting Officer or designated representative such as to maximize convenience for the government representatives who will need to attend. These will include the Contracting Officer or designated representative and the Civil Engineering Project Manager and Construction Inspector.
2. **OTHER PROJECTS:** The Contractor shall be fully responsible for coordinating his operations with those of all others operating in the vicinity of his operations. Coordination shall include but not be limited to vehicle access, movement of equipment, security, installation and removal of utilities, storage and parking.
3. **SINGLE POINT OF CONTACT.** The Contractor shall appoint, assign and designate one primary and one alternate employee who will be on the site at all times while work is in progress to serve as the government's single point of contact for matters of daily concern. The single point of contact shall serve as the Contractor's safety officer, environmental compliance officer and EEO officer and shall generally exercise authority over all of the Contractor's employees and subcontractors. The Contractor shall route all submittals through the single point of contact.
4. **DAILY WORK SCHEDULE.** Working hours for the Contractor will normally be between the hours of 8:00 a.m. and 5:00 p.m., excluding Saturdays, Sundays, and Federal holidays. If the Contractor wishes to work at other times, additional Government inspection services may be required. The Contractor must notify the Contracting Officer or designated representative sufficiently in advance (not less than four days) of his request to work during other periods to allow scheduling of government inspection personnel. If government inspection services are required in excess of normal duty hours solely for the convenience or benefit of the Contractor, the actual cost of government's overtime inspection will be charged to the Contractor and will be deducted from the Contractor's pay. If inspection services are not available, it may also at times be necessary for the government to deny the Contractor's request to work beyond normal duty hours.
5. **OFFUTT AIR SHOW.** The Contractor shall not be allowed to work during the annual Offutt Air Show. This is generally a three day weekend (Fri-Sat-Sun) event normally held once per year in the month of August. It is heavily advertised to the public each year beginning in June.
6. **NOTIFICATION OF DELAYS.** The Contractor shall provide prior notification to the Contracting Officer or designated representative in writing, when he plans to stop work for a period of more than four days. The prior notification shall indicate proposed dates of the stoppage.
7. **OCCUPANCY.** During construction, the Government will occupy the existing facilities. The Contractor shall not restrict pedestrian or vehicular traffic to these facilities and shall coordinate construction with the Government Construction Representatives to minimize

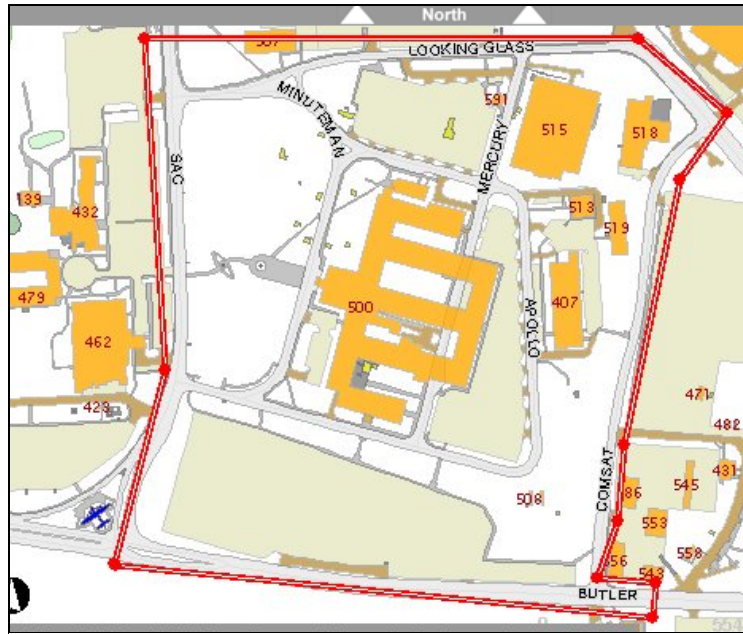
conflicts and to facilitate usage. The Contractor shall perform the work so as not to interfere with ongoing operations.

8. **UTILITY SERVICE INTERRUPTIONS.** For all work involving any utility interruptions (i.e. water, power, sewer, drainage, gas, etc.), the Contractor shall provide coordination and submittals through the Contracting Officer or designated representative. The Contractor shall accomplish utility service interruptions only during non-duty hours. Non-duty hours shall generally include all day on Saturdays, all day on Sundays, all day on federal holidays and between the hours of 5:30 p.m. and 6:30 a.m. on weekdays. The Contractor shall not interrupt utility services to any single service line more than one time during the duration of the contract and no utility service interruption shall be for more than a four hour duration. The Contractor shall provide a separate submittal for each utility interruption ten days prior to the proposed date of the interruption. The submittal for the proposed interruptions shall include a description of the work to be done, all of the significant locations to include building numbers and addresses, and the proposed time, date, and duration of the outage. No interruption shall be accomplished without prior approval through the Contracting Officer or designated representative. The Contractor shall post customized signage to advertise utility interruptions outside each of the facility entry doors where interruptions are proposed at least two days prior to the interruption. The Contractor shall provide a scale drawing of the proposed signs with his submittal. The Contractor shall remove the signs when they are no longer applicable. In order to minimize interruption durations, the Contractor shall make every attempt to complete maximal preparation prior to each utility interruption.

9. **TEMPORARY SERVICES / UTILITY SERVICE INTERRUPTION PROHIBITIONS.** The Contractor shall NOT cause ANY utility interruptions (i.e. water, power, sewer, drainage, gas, etc.), at selected locations. Instead, the Contractor shall provide temporary services equal to the existing services. Remove the temporary services when their use is no longer needed for the convenience of the facility users. The selected locations where no utility interruptions shall be allowed include the military dining facility on the north side of the main base and all of the facilities located within the Stratcom Island on the south side of the main base. The Stratcom Island includes that area bounded on the west by Sac, bounded on the east by Comsat, bounded on the north by Looking Glass and bounded on the south by Butler Blvd.



Military Dining Facility is the Center Segment of B324 – No Utility Service Interruptions



Stratcom Island– No Utility Service Interruptions

V. CONTRACTOR PERSONNEL AND EQUIPMENT:

1. **CONSTRUCTION TRAILER USE/IDENTIFICATION.** The location of any trailer/temporary building, etc. used during a contract period shall be approved by the Chief of Construction Management [(402) 294-5084] prior to installation or delivery to the base (allow 7-10 days for this approval to be processed). For security, safety, and/or emergency notification purposes, each trailer/building, etc. must be prominently marked, identifying the Contractor and providing telephone number(s) for a point of contact during both duty and non-duty hours. Use either sign(s) or permanent markings, professional in appearance, as determined by the Government Construction Representative. Maintain and keep neat in appearance each trailer and its immediate surrounding area.
2. **BASE REGULATIONS.** The Contractor shall become knowledgeable of and conform to all base regulations and directives especially as they pertain to security, hazardous waste, hazardous materials, safety, traffic, fire, and personnel clearances.
3. **SEAT BELTS:** The use of seat belts by all vehicle and equipment occupants is required at all times while in vehicles and movable equipment.
4. **GENERAL RESTRICTIONS:**
 - a. **EXPLOSIVES OR FIRE ARMS** The Contractor shall NOT use or possess explosives or fire arms.
 - b. **ROUTES:** The Contractor shall use only established roadways, entrances, and exits as prescribed by the Government Construction Representative.
 - c. **LOCATIONS:** The Contractor's employees shall be restricted to areas within the contract scope plus direct routes to and from the site from off base.

- d. ESCORTS AND IDENTIFICATIONS: While on base, each Contractor employee shall either be escorted by an authorized escort or shall possess on their person a valid Air Force issued identification card.
 - e. IDENTIFICATION CARDS: All Air Force issued ID cards remain the property of the government. The Contractor shall return all ID cards upon project completion or sooner if requested to do so by authorized government officials.
 - f. STORAGE: Materials and equipment shall be stored only in government designated areas, and shall be transported directly to and from the construction site.
- 5. PARKING: The Contractor's employees shall park only in areas designated by the Chief of Construction Management for this purpose.
 - 6. VEHICLE EMBLEMS: The Contractor's commercial vehicles shall display emblems indicating the company name.
 - 7. STORAGE REMOVAL: All items of stored materials, containers, vehicles and other equipment shall be removed from the base prior to final payment. All original materials quantity receipts shall be given to the Government Construction Representative upon delivery of materials to job site.
 - 8. RESTRICTED AREA: When the Contractor is required to perform work inside of restricted areas such as inside of the airfield fence or on the inside of sensitive buildings, the Contractor shall coordinate in advance for authorized government escorts.

VI. SAFETY:

- 1. OCCUPATIONAL, SAFETY AND HEALTH ACT. Contractors shall comply with OSHA 1926, Construction Standards and the portions of OSHA 1910 Standards that are applicable to construction. The U.S. Army Corps of Engineers Manual EM 385-1-1, shall be used in the absence of guidance in OSHA standards.
- 2a. FIRE PROTECTION CONSTRUCTION CRITERIA. The Contractor will be required to comply with the provisions of National Fire Protection Act 241 entitled "Building Construction and Demolition Operations," including Appendix A. The Contractor shall make themselves knowledgeable and comply with the fire protection requirements of Offutt AFB Supplement 1 to Air Force Instruction 32-2001, "Fire Prevention and Fire Protection," to apply during the construction period. The Contractor shall furnish and maintain required fire extinguisher(s) during the construction period and shall remove the extinguisher(s) upon project completion.
- 2b. WELDING. Welding will be permitted. The Contractor shall secure the proper welding permit and coordinate with the Base Fire Department.
- 3. CONFINED SPACE ENTRY. The Contractor shall comply with 29 CAF 1910, Paragraph 146, "Confined Space Entries and the Clean Air Act." Details and information pertaining to confined space entry is contained in Air Force Occupational Safety and Health Standard (AFOSH STD) 91-25, Confined Spaces. A paper copy of the standard is available in the Engineering Flight Offices in Building 301 (Martin Bomber Building). The street address is 106 Peacekeeper Drive, Suite 2N3. An electronic copy of the document in the Adobe computer software format is available on the Internet at this address:
<http://afpubs.hq.af.mil/pubfiles/af/91/afoshstd91-25/afoshstd91-25.pdf>

A confined space entrance shall include an entrance into a space that is large enough and so configured that an employee can bodily enter and perform assigned work, and has limited or restricted means for entry or exit (e.g., tanks, vessels, silos, storage bins, hoppers, vaults, boilers, and pits are spaces that may have limited means of entry).

a. A permit is required to enter a confined space that has one or more of the following:

- (1) Contains or has a potential to contain a hazardous atmosphere.
- (2) Contains a material that has the potential for engulfing an entrance.
- (3) Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly confining wall or by a floor that slopes downward and taper to a smaller cross section.
- (4) Contains any other recognized serious safety or health hazard.

b. All spaces shall be considered permit required confined spaces until pre-entry procedures demonstrate otherwise. Testing and classification of confined spaces will be done by a qualified person who is trained in the operation of direct reading oxygen, flammability, and toxicity monitoring equipment prior to each confined space entry. The person conducting the test will be documented on AF Form 55, Employee Safety and Health Record. Initial testing shall be performed by drop test or insertion of sample probes and hoses into the space.

c. Each Contractor who is retained to perform permit space entry operations shall:

- (1) Obtain any available information regarding permit space hazards and entry operations from the Base Civil Engineer personnel.
- (2) Coordinate entry operations with Base Civil Engineer personnel when government and Contractor personnel will be working in or near the permit spaces.
- (3) Inform the Government of the permit space program that the Contractor will follow and of any hazards confronted or created in permit spaces whether through a briefing or during the entry operation.

d. Details and information pertaining to confined space entry is contained in Air Force Occupational Safety and Health Standard (AFOSH STD) 91-25, Confined Spaces. A paper copy of the standard is available in the Engineering Flight Offices in Building 301 (Martin Bomber Building). The street address is 106 Peacekeeper Drive, Suite 2N3. An electronic copy of the document in the Adobe computer software format is available on the Internet at this address:

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